AMENDMENTS

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This listing of claims replaces all prior listings and versions of claims in this application.

Claims 1-13: cancelled.

- 14. A microcapsule comprising at least one polymerization initiator.
- 15. The microcapsule of claim 14, wherein the polymerization initiator is capable of initiating the polymerization of unsaturated polyester resins.
- 16. The microcapsule of claim 14, wherein the polymerization initiator is a free radical initiator.
- 17. The microcapsule of claim 14, wherein the polymerization initiator is a C-C-labile compound.
- 18. The microcapsule of claim 14, wherein the capsule shell of the microcapsule is designed in such a way that it decomposes at the curing temperature of the polymer composition to be cured.
- 19. The microcapsule of claim 14, wherein the capsule shell of the microcapsule comprises one or more organic polymers.
- 20. The microcapsule of claim 14, wherein the capsule shell of the microcapsule comprises polyurethanes, melamine resins, epoxy resins or mixtures thereof.
- 21. A process for the production of a microcapsule, comprising the steps of:
 - (a) preparing a solution containing a polymerization initiator used for the production of a capsule shell,
 - (b) preparing a solution containing an organic polymer and a polymerization initiator,
 - (c) mixing the solutions to form a mixture, and
 - (d) if necessary, processing the mixture to produce a powder.
- 22. The process of claim 21, wherein, in step (c), the solutions are mixed via stirring with one another to a droplet size ranging from 1 to 20 µm.

- 23. The process of claim 22, wherein the solutions are mixed to a droplet size ranging from 3 to 15 μm .
- 24. The process of claim 21, wherein the mixture obtained from step (c) is cooled and spraydried in step (d).
- 25. A process for polymerizing a polyester resin, comprising the steps of:
 - (a) introducing a polyester resin capable of being polymerized,
 - (b) polymerizing the polyester resin with a microcapsule comprising at least one polymerization initiator.
- 26. The process of claim 25, wherein said polyester resin is a casting resin or an impregnating resin.
- 27. The process of claim 25, wherein said polyester resin is a fiber-reinforced unsaturated polyester resin.